

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation. See text for further explanation of ratings in this table.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ad: Adrian, undrained----	75	Very limited Ponding Depth to saturated zone Subsidence Frost action	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Content of organic matter	1.00 1.00 1.00 1.00	Very limited Ponding Content of organic matter Depth to saturated zone	1.00 1.00 1.00
Am: Adrian, drained-----	75	Very limited Ponding Depth to saturated zone Subsidence Frost action	1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Cutbanks cave Content of organic matter	1.00 1.00 1.00 1.00	Very limited Ponding Content of organic matter Depth to saturated zone	1.00 1.00 1.00
Au: Aubbeenaubee-----	90	Very limited Frost action Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.94
BlA: Blount-----	90	Very limited Frost action Shrink-swell Depth to saturated zone	1.00 1.00 0.94	Very limited Depth to saturated zone Depth to dense layer Cutbanks cave Too clayey	1.00 0.50 0.10 0.02	Somewhat limited Depth to saturated zone	0.94
BlB2: Blount-----	90	Very limited Frost action Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Depth to dense layer Cutbanks cave Too clayey	1.00 0.50 0.10 0.02	Somewhat limited Depth to saturated zone	0.94
BoB: Boyer-----	100	Not limited		Very limited Cutbanks cave	1.00	Not limited	

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BoC: Boyer-----	100	Somewhat limited Slope	0.04	Very limited Cutbanks cave Slope	1.00 0.04	Somewhat limited Slope	0.04
BoD2: Boyer-----	100	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope	1.00
Br:							

Brady-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Cutbanks cave	1.00		
Bx: Brookston-----	100	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Depth to dense layer	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
CcC3: Casco-----	100	Somewhat limited Slope	0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Gravel content Slope Droughty	0.38 0.37 0.32
ChB: Chelsea-----	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.34
ChC: Chelsea-----	100	Somewhat limited Slope	0.04	Very limited Cutbanks cave Slope	1.00 0.04	Somewhat limited Droughty Slope	0.94 0.04
CrA: Crosier-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Depth to dense layer	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Ed: Edwards-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Content of organic matter	1.00
		Subsidence	1.00	Content of organic matter	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10	Carbonate content	1.00

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Em: Edwards-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Content of organic matter	1.00
		Subsidence	1.00	Content of organic matter	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10	Carbonate content	1.00
FoA: Fox-----	90	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Not limited	
		Frost action	0.50				
FoB: Fox-----	100	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Not limited	
		Frost action	0.50				
FoC2: Fox-----	100	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Slope	0.04
		Frost action	0.50	Slope	0.04		
		Slope	0.04				
FsD2: Fox-----	50	Very limited Slope	1.00	Very limited Cutbanks cave	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Slope	1.00		
		Frost action	0.50				
Casco-----	30	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.22
FsE2: Fox-----	50	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00

		Shrink-swell	0.50	Cutbanks cave	1.00		
		Frost action	0.50				
Casco-----	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.22
Fu:							
Fulton-----	90	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Depth to	1.00	Depth to	1.00
				saturated zone		saturated zone	
		Depth to	1.00	Too clayey	0.32		
		saturated zone					
		Frost action	0.50	Cutbanks cave	0.10		
Gf:							
Gilford-----	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Depth to	1.00
		saturated zone		saturated zone		saturated zone	
		Frost action	1.00	Cutbanks cave	1.00		

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Gp:							
Pits-----		Not rated		Not rated		Not rated	
HaA:							
Haskins-----	90	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to	1.00	Depth to	0.94
				saturated zone		saturated zone	
		Depth to	0.94	Depth to dense	0.50		
		saturated zone		layer			
		Shrink-swell	0.50	Cutbanks cave	0.10		
Hh:							
Homer-----	90	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to	1.00	Depth to	0.94
				saturated zone		saturated zone	
		Depth to	0.94	Cutbanks cave	1.00		
		saturated zone					
		Shrink-swell	0.50				
Hm:							
Houghton, undrained-	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
		saturated zone		saturated zone		organic matter	
		Subsidence	1.00	Content of	1.00	Depth to	1.00
				organic matter		saturated zone	
		Frost action	1.00	Cutbanks cave	0.10		
Ho:							
Houghton, drained---	75	Very limited		Very limited		Very limited	
		Ponding	1.00	Ponding	1.00	Ponding	1.00
		Depth to	1.00	Depth to	1.00	Content of	1.00
		saturated zone		saturated zone		organic matter	
		Subsidence	1.00	Content of	1.00	Depth to	1.00
				organic matter		saturated zone	
		Frost action	1.00	Cutbanks cave	0.10		
La:							
Lake Borders-----	100	Not rated		Not rated		Not rated	
Ma:							
Marl Beds-----	100	Not rated		Not rated		Not rated	
Mb:							
Marsh-----	100	Not rated		Not rated		Not rated	
MdB:							
Martinsville-----	100	Somewhat limited		Very limited		Not limited	
		Shrink-swell	0.50	Cutbanks cave	1.00		
		Frost action	0.50				

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MeB: Metea-----	100	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to dense layer	1.00 0.50	Somewhat limited Droughty	0.23
MfB2: Miami-----	100	Somewhat limited Shrink-swell Frost action	0.50 0.50	Somewhat limited Depth to saturated zone Depth to dense layer Cutbanks cave	0.99 0.50 0.10	Not limited	
MfC2: Miami-----	100	Somewhat limited Shrink-swell Frost action Slope	0.50 0.50 0.04	Somewhat limited Depth to saturated zone Depth to dense layer Cutbanks cave Slope	0.99 0.50 0.10 0.04	Somewhat limited Slope	0.04
MfD2: Miami-----	100	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Depth to saturated zone Depth to dense layer Cutbanks cave	1.00 0.99 0.50 0.10	Very limited Slope	1.00
MfE2: Miami-----	100	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Depth to dense layer Cutbanks cave	1.00 0.50 0.10	Very limited Slope	1.00
MgC3: Miami-----	100	Somewhat limited Shrink-swell Frost action Slope	0.50 0.50 0.04	Somewhat limited Depth to saturated zone Depth to dense layer Cutbanks cave Slope	0.99 0.50 0.10 0.04	Somewhat limited Slope Content of large stones	0.04 0.01
MgD3: Miami-----	100	Very limited Slope Shrink-swell Frost action	1.00 0.50 0.50	Very limited Slope Depth to saturated zone Depth to dense layer Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Slope Content of large stones	1.00 0.01

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MhA: Miami-----	100	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave	1.00	Not limited	
MhB2: Miami-----	100	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave	1.00	Not limited	
Mn: Milford-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

		Frost action	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00				
MrB2:							
Morley-----	90	Very limited		Somewhat limited		Not limited	
		Shrink-swell	1.00	Depth to	0.99		
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
				Cutbanks cave	0.10		
				Too clayey	0.01		
MrC2:							
Morley-----	100	Very limited		Somewhat limited		Somewhat limited	
		Shrink-swell	1.00	Depth to	0.99	Slope	0.04
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
				Too clayey	0.01		
MrD2:							
Morley-----	100	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Slope	1.00	Slope	1.00
		Slope	1.00	Depth to	0.99		
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
				Cutbanks cave	0.10		
				Too clayey	0.01		
MsC3:							
Morley-----	100	Very limited		Somewhat limited		Somewhat limited	
		Shrink-swell	1.00	Depth to	0.99	Slope	0.04
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
				Too clayey	0.01		

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MsD3:							
Morley-----	100	Very limited		Very limited		Very limited	
		Shrink-swell	1.00	Slope	1.00	Slope	1.00
		Slope	1.00	Depth to	0.99		
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
				Cutbanks cave	0.10		
				Too clayey	0.01		
MtE:							
Morley-----	100	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	0.50	Depth to dense	0.50	Droughty	0.01
				layer			
		Frost action	0.50	Cutbanks cave	0.10		
				Too clayey	0.01		
MuC2:							
Morley-----	40	Very limited		Somewhat limited		Somewhat limited	
		Shrink-swell	1.00	Depth to	0.99	Slope	0.04
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
				Too clayey	0.01		
Miami-----	30	Somewhat limited		Somewhat limited		Somewhat limited	
		Shrink-swell	0.50	Depth to	0.99	Slope	0.04
				saturated zone			
		Frost action	0.50	Depth to dense	0.50		
				layer			
		Slope	0.04	Cutbanks cave	0.10		
				Slope	0.04		
Rawson-----	30	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Slope	0.04
		Frost action	0.50	Depth to	1.00	Depth to	0.03
				saturated zone		saturated zone	

		Slope	0.04	Depth to dense layer	0.50		
		Depth to saturated zone	0.03	Slope	0.04		
OsB:							
Oshtemo-----	100	Not limited		Very limited		Not limited	
				Cutbanks cave	1.00		
OsC:							
Oshtemo-----	100	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.04	Cutbanks cave	1.00	Slope	0.04
				Slope	0.04		
OtA:							
Oshtemo-----	100	Not limited		Very limited		Not limited	
				Cutbanks cave	1.00		

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Pb:							
Palms-----	100	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Content of organic matter	1.00
		Subsidence	1.00	Content of organic matter	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10		
PdA:							
Parr-----	100	Somewhat limited		Somewhat limited		Not limited	
		Shrink-swell	0.50	Depth to saturated zone	0.99		
		Frost action	0.50	Depth to dense layer	0.50		
				Cutbanks cave	0.10		
Pe:							
Pewamo-----	100	Very limited		Very limited		Very limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Depth to saturated zone	1.00				
RaB:							
Rawson-----	100	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Depth to saturated zone	0.03
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.03	Depth to dense layer	0.50		
RaC2:							
Rawson-----	100	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Slope	0.04
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.03
		Slope	0.04	Depth to dense layer	0.50		
		Depth to saturated zone	0.03	Slope	0.04		
RbA:							
Rawson-----	100	Somewhat limited		Very limited		Somewhat limited	
		Shrink-swell	0.50	Cutbanks cave	1.00	Depth to saturated zone	0.03
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.03	Depth to dense layer	0.50		

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value

RbB:							
Rawson-----	100	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.03
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.03	Depth to dense layer	0.50		
RdB2:							
Rawson-----	40	Somewhat limited Shrink-swell	0.50	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.03
		Frost action	0.50	Depth to saturated zone	1.00		
		Depth to saturated zone	0.03	Depth to dense layer	0.50		
Miami-----	30	Somewhat limited Shrink-swell	0.50	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Frost action	0.50	Depth to dense layer	0.50		
				Cutbanks cave	0.10		
Morley-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.99	Not limited	
		Frost action	0.50	Depth to dense layer	0.50		
				Cutbanks cave	0.10		
				Too clayey	0.01		
Re:							
Rensselaer-----	100	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Cutbanks cave	1.00		
		Shrink-swell	0.50				
RsA:							
Riddles-----	90	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
		Frost action	0.50				
RsB:							
Riddles-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
		Frost action	0.50				
RsC2:							
Riddles-----	100	Somewhat limited Shrink-swell	0.50	Somewhat limited Cutbanks cave	0.10	Somewhat limited Slope	0.04
		Frost action	0.50	Slope	0.04		
		Slope	0.04				

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
RsD2:							
Riddles-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Slope	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Se:							
Sebewa-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	1.00		
		Shrink-swell	0.50	Depth to dense layer	0.50		
Sh:							
Shoals-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	0.94
		Depth to saturated zone	0.94	Cutbanks cave	0.10		
To:							

Toledo-----	100	Very limited Depth to saturated zone Frost action Shrink-swell	1.00 1.00 1.00	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.12 0.10	Very limited Depth to saturated zone	1.00
W: Water-----	100	Not rated		Not rated		Not rated	
Wa: Wallkill-----	100	Very limited Depth to saturated zone Frost action	1.00 1.00	Very limited Depth to saturated zone Content of organic matter Cutbanks cave	1.00 1.00 1.00 0.10	Very limited Depth to saturated zone	1.00
WrA: Warsaw-----	100	Somewhat limited Shrink-swell Frost action	0.50 0.50	Very limited Cutbanks cave	1.00	Not limited	
Ws: Washtenaw-----	100	Very limited Depth to saturated zone Frost action	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00 0.10	Very limited Depth to saturated zone	1.00

Table ENG-4.--Building Site Development--Continued

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wt: Whitaker-----	90	Very limited Frost action Depth to saturated zone Shrink-swell	1.00 0.94 0.50	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Somewhat limited Depth to saturated zone	0.94